

National Institute of Solar Energy

(Formerly known as Solar Energy Centre)

(An autonomous institute of Ministry of New & Renewable Energy)
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2015-2016

TEST REPORT ON BATTERY

Sample ID No. 38/15/BT

Manufactured by : M/s Su-Kam Power Systems Ltd., Plot No.54, Udyog Vihar,
 Phase VI, Sector-37, Gurgaon-122001, Haryana

Submitted by : M/s Su-Kam Power Systems Ltd., Plot No.54, Udyog Vihar,
 Phase VI, Sector-37, Gurgaon-122001, Haryana

This is a report on measurements of **Capacity rating, Charge efficiency & Self Discharge** carried out on the battery (sample no. 38/15/BT) submitted at National Institute of Solar Energy as per **IS 13369:1992** standard. **The data reported in this TEST REPORT are valid at the time of and under the stipulated conditions of measurement and the test results are applicable to this battery only and do not apply to other batteries even though declared to be identical.** The data contents in this report do not constitute a qualification test certificate. NISE does not accept any liability for any consequences including commercial or otherwise arising out of the utilization of the information contained in this report.

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Mamish
 29/01/16

Rajesh Kumar
 29/01/2016



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TEST REPORT OF LEAD ACID BATTERY

Sample ID No. 38/15/BT

Manufactured by : M/s Su-Kam Power Systems Ltd., Plot No.54, Udyog Vihar,
Phase VI, Sector-37, Gurgaon-122001, Haryana

Submitted by : M/s Su-Kam Power Systems Ltd., Plot No.54, Udyog Vihar,
Phase VI, Sector-37, Gurgaon-122001, Haryana

S.No	Test Description	Manufacture's Claim	Observations	Remarks
1	(I) Brand/Model (ii) Type (iii) S.No. (iv) Year (v) <u>Rating</u> (a) Voltage (b) Capacity at C10 discharge rate (vi) Dimension (mm) (vii) Weight before testing (kg)	Su-Kam/STB1500 Lead Acid KSLOK00021 2015 12V 150Ah 518x274x286 57.58Kg	Su-Kam/STB1500 Lead Acid KSLOK00021 2015 12V 168.7Ah 520x275x285 57.24Kg	cut off voltage 10.8 V
2	Charging Efficiency: (A) Capacity on discharging at (C 10) constant current continuously up to cut off voltage. (B) Capacity after recharging the battery by 166.9Ah and then again discharging up to cut off voltage. (C) Efficiency-Ah & Wh		166.9Ah 155.41Ah 93.12% & 80.68%	Average Charging Voltage = 14V Average discharging voltage = 12.13V

Manish
29/01/16

Rajendra Kumar
29/01/2016

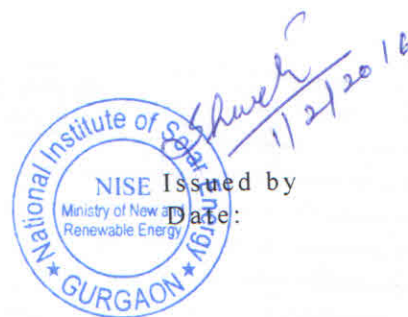


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3	Self-discharge test: (A) Initial Capacity on discharging at (C 10) constant current continuously up to cut off voltage. (B) Final Capacity after keeping 28 days in 27 ±5 deg.C temperature. (C) Self Discharge (%)		152.38 Ah 143.73 Ah 5.68%
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Prepared by: Mamukh
Date: 29/01/16

Approved by: Rajesh Kumar
Date: 29/01/2016



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